

## Virus and Microscope Review Sheet

Define:

- Virus
- Nucleic Acid (DNA, RNA)
- Viral Envelope
- Host Range
- Retrovirus
- Innate immune system
- Acquired immune system
- Interferons
- Pathogen
- Bacteriophage
- Prophage
- Vaccine
- Virulence
- Antigen
- Antibody
- Lysis
- Phagocyte
- Lymphocyte
- Capsid
- Envelope
- Lytic Cycle
- Lysogenic Cycle
- Reverse Transcriptase
- Host Range (broad/narrow)
- Immune System (innate/acquired)
- Specific/Non-Specific Response

1. Describe the structure of a typical virus.
2. What are the three main shapes of a virus?
3. What are the characteristics of living things?
4. What living and non-living characteristics to viruses have?
5. Describe how viruses reproduce.
6. Differentiate between the lytic and lysogenic pathways.
7. How does the innate immune system fight infection? The acquired immune system?
8. Differentiate between the primary, secondary and tertiary lines of defense.
9. Know the effects of viruses on human health.
10. Describe the three theories on the origin of viruses.
11. Describe safety procedures for biology labs.
12. Know the parts of the microscope and their function.
13. Review the questions (that were for your notes) from the microscope lab.
14. Know how to calculate actual size and drawing magnification.
15. Describe the scientific method.